IntelliGenetics

Release 5.4

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Sig. Frame
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MEDLINE-8526765; PubMed-3894933;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutherla; Primates; Catarrhini; Hominidae; Homo.
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MEDLINE-87089826; PubMed-3025664;
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Rotter V.;
Init. Opt.
Length Score Score
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P04637 Cellular tumor antigen p53 (Tumor suppressor p53)
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MEDLINE-85126934; PubMed-6396087;
Matlashewski G., Lamb P., Pim D., Peacock J., Crawford L.,
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Lamb P., Crawford L.;
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EMBO J. 3:3257-3262(1984);
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EMBO J. 4:1251-1255(1985)
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                      Description
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3ene 70:245-252(1988).
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Number of sequences searched:
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Similarity matrix
Mismatch penalty
Gap penalty
Gap size penalty
Cutoff score
Randomization group

Scores:

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    protein
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Flammn J.-W., Warldel F., Estreicher A., Vannier A., Limacher J.-M.,
Gilbert D., 1ggo R., Frebourg T.
"The human tumour suppressor gene p53 is alternatively spliced in
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MEDLINE-94294808; Pubmed-8023159;
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STRUCTURE BY NMR OF 326-354
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                                                     SEQUENCE FROM N.A.
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X-RAY CRYSTALLOGRAPHY (2.2 ANGSTROMS) OF 97-287 IN COMPLEX WITH 53BP2 MEDLINE-97035414; PubMed-8875926;
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MEDILINE-55184011; Pubmed=7878464;
Jeffrey P.D., Gorina S., Pavietich N.P.;
"Crystal structure of the tetramerization domain of the p53 tumor
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                                                                                                                                                                                                                                                                                                                                                  complex:
MEDLINE-98026899; PubMed=9321402;
MCCOy M., Stavridi E.S., Waterman J.L., Wieczorek A.M.,
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p53 gene in an
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MEDLINE-22034774; Pubmed-1933902;
MADLINE-Strong L.C., Chidambaram A.,
"A germ line mutation in exon 5 of the
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REVIEW ON VARIANTS.
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Nature 350:427-428(1991).
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WEDIANE-2147883; Pubmed=1737852;
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MEDILINE=22335229; PubMed=1631151;
Sun Y., Hegamyer G., Heng Y.-J., Hildesheim A., Chen J.-Y., Cao
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WEDLINE-93007999; Pubmed-1394225;
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MEDLINE-93093790; PubMed-1459726;
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expression.
SUBUNIT: Binds DNA as a homotetramer. In vitro, the interaction of
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-!- FUNCTION: Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of BC1-2
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MEDLINE-95193787; PubMed-7887414;
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Am. J. Hum. Genet. 56:608-615(1995).
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MEDLINE-98080146; PubMed-9419979;
MIYAKI M., Nishio J., Konishi M., Kikuchi-Yanoshita R., Tanaka K.,
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Varley J.M., McGrown G., Thorncroft M., Tricker K.J., Teare M.D.,
Santibanez-Koref M.F., Houlston R.S., Martin J., Birch J.M.,
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MEDLINE-98112421; PubMed-9452042;
Luca J.W., Strong L.C., Hansen M.F.;
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                                                                                                     J.W.,
                                                                                                          Shay
                                                                                                                            human p53.
                                                                  CHARACTERIZATION OF VARIANT ALA-143.
MEDILINE-94283378, Pubmed-8013454;
Zhang W., Guo X.-Y., Hu G.-Y., Lit W.-B.,
"A temperature-sensitive mutant of human p
electrophoresis in colorectal tumors."; '
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Hum. Mutat. 11:39-44(1998).
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DATABASE: NAME-Prague p53;
NOTE-University of Prague db of germline p53 mutations;
NOTE-University of Prague db of germline p53 mutations;
WWW-"http://www.lf2.cuni.cz/win/projects/germline_mut_p53.htm".
DATABASE: NAME-Atlas Genet. Cytogenet. Oncol. Haematol.;
WWW-"http://www.infobiogen.fr/services/chromcancer/Genes/P53ID88.html".
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                                                                                                                                                                                                                                                                                                  TUMORS AT UNUSTALLY ENERTY AGES.
DISEASE: VARIANT ALA-143 IS TEMPERATURE SENSITIVE. AT 32.5 DEGREES CELSIUG IT POSSESSES STRONG DNA BINDING ABILITY, BUT AT 37.5 DEGREES CELSIUG ITS TRANSCRIPTIONAL ACTIVITIES ARE GREATLY REDUCED.
                  ubiquitination and degradation of TPS3 giving a possible model for cell growth regulation. This complex formation requires an additional factor, E6-AP, which stably associates with TPS3 in the presence of E6.
SUBCELLULAR LOCATION: Nuclear.
ALTERNATIVE PRODUCTS: 2 ISOFONNS; 1 (SHOWN HERE) AND 2/19RET; ARE PRODUCED BY ALTERNATIVE SPLICING, ISOFONN 2 SEENS TO BE POND FUNCTIONAL IS EXPRESSED IN QUIESCENT LYMPHOCYTES.
PTM: PHOSPHORYLATION ON SER RESIDENCE MEDIATES TRANSCRIPTIONAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRATIFIED SQUAMOUS EPITHELIUM OF THE LOWER ESOPHAGUS IS REPLACED
STRATIFIED SQUAMOUS EPITHELIUM OF THE LOWER ESOPHAGUS IS REPLACED
STRATIFIED SQUAMOUS EPITHELIUM. THE CONDITION DEVELOPES AS A
COMPLICATION IN APPROXIMATELY 10% OF PATIENTS WITH CHRONIC
GASTROESOPHAGEAL REFLUX DISEASE AND PREDISPOSES TO THE DEVELOPMENT
DISEASE: DEFECTS IN TP53 ARE THE CAUSE OF HEAD AND NECK SQUAMOUS
CARCINOMAS (HNSC) AND ORAL SQUAMOUS CELL CARCINOMAS (OSCC).
CIGARETTE SMOKE IS A PRIME MUTAGENIC AGENT IN CANCER OF THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WWW-"http://bloinformatics.weizmann.ac.il/hotmolecbase/entries/p53.htm"

C -1- DATABASE: NAME-IARC p53,

C NOTE-IARC db of sometic p53 mutations;

CWW-"http://www.iarc.ft/p53/homepage.htm".

C -1- DATABASE: NAME-Tokyo p53;

C -1- DATABASE: NAME-Tokyo p53;

C NWW-"http://p53.genome_ad.jp/".
with cancer-associated/HPV (E6) viral proteins leads to
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SIMILARITY: BELONGS TO THE P53 FAMILY.
DATABASE: NAME-HOLMOLECBASE; NOTE-P53 entry;
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AAA59988.1;

EMBL;

A -> T (IN CLONE P53-H-1). /FTId-VAR_005857.	p -> Q (IN A BRAIN TUMOR). /FIId=VAR_005858.	S -> T (IN A COLON TUMOR). /FTIG-VAR_005859.	R -> C (IN A LIVER AND AN ULERUS TUMOR). /FIId=VAR_005860.	/FTId=VAR_005861	R -> F (IN A BREASI 10MOR). /FTId=VAR_005862.	F> C (IN A LUNG TUMOR).	T -> M (IN A LUNG TUMOR).	/FIIG=VAK_UU2804. Y -> D (IN A COLORECTAL TUMOR).	/FTIG=VAR_005865. Y -> N (IN A LEUKEMIA AND A LYMPHOMA).	/FIId=VAR_005866. S -> F (IN A LUNG TUMOR).	/FIId=VAR_005867.	FTIG-VAR_005868.	A -> D (IN A SARCOMA). /FTId-VAR_005869.	L -> R (IN A LIVER TUMOR).	NATIONAL OFFICE TOWNS)	A COLON TUMOR).	K FILCHVAR COUNTY K K K K K K K K K K K K K K K K K K K	K TIUT VAN COOK TO	/FIIG=VAK_0030/4. M -> T (IN LFS). /FWIIA=VARD OD5875.	C - S I A COLON TUMOR).	C - S - S - S - S - S - S - S - S - S -	VELLUEVARA COSO (VI) (VI) A BREAST TUMOR).	O STATE OF S	/FIIG=VAK_U038/9. L -> Q (IN A LIVER TUMOR).	/FIId=VAR_005880. A -> P (IN A LUNG TUMOR).	K -> N (IN A BREAST, AN OVARY TUMOR, A	LECKEMIA AND A LIMPROMA). FILE—VAR_005882. FILE—VAR_005882.	FIId=VAR_005883	C -> G (IN A OVARY TUMOR). ./FTId=VAR_005884.	C -> F (IN A BREAST TUMOR). /Fmld=VAR 005885	C TY THE MANY TYPES OF TUMORS)	/FIId=VAK_U03880.	/FTIC=VAR_OUSB87. Q -> P (IN A LEUKEMIA AND A LYMPHOMA). /FTIC=VAR OUSB88.	L - P (IN A BRAIN TUMOR).	L -> O (IN A ESOPHAGUS TUMOR)	V -> D (IN A OVARY TUMOR). /FTId=VAR_005891.	V -> G (IN A PROSTATE TUMOR). /FTIG=VAR_005892.
42	87	94	110	011	. 011	113	125	126	126	127	4 6	871	129	130	131	131	132	132	133	135	135	136	136	137	138	139		: 	141	141	141	143	144	145	145	147	147
79	. 87	94	110	011	110	113	125	126	126	127	N (128	129	130	131	131	132	132	133	135	135	136	136	137	138	139	•	140	141	141	141	143	144	145	145	147	147
VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	TNATORY	VARIANI	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT		VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT
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	1) JOINED.	11.	11	8.1; 8.1; JOINED.	1, ALT_TERM.	1, 1					. •	ere e								HUMAN.		P53	PPRESSR.		itanscription regardation, tion; Glycoprotein; Apopt se mutation; Polymorphism;	TRANSCRIPTION ACTIVATION (ACIDIC).	OLIGOMERIZATION.		NUCLEAR LOCALIZATION SIGNA	TRANSCRIPTIONAL REFRESSION PHOSPHORYLATION (BY CDC2).	PHOSPHORYLATION IRGRERFEMF -> DO	MISSING (IN ISOFORM 2). D -> H (IN A SKIN TUMOR).		\1			`
A59988.	459988.	A25652.	A26306.	AAD2862	A42627.	A38095. 224.	397.	436		T-95.	T-95. T-95.	H-95.	H-95.	7-95. Z-96.	N-97.	B-95.	N-97.	9-NOV-97.	4-JAN-01.	► F		٠,٦	PR00386, P53SUPPRES	3; P53;	Phospl	syndrome.	356						` . £	43	53		72
AA.	\$ \$ \$	404	8 d A	1,0	S	A25	125	2	₹ ₹ 8	38	88	888	38	βŞ	J. F.E.	H H	N N	N A	-31 671	P(00:	9,6	4	ini	γ'nς	22	89	4 [39	92	342	35	43	53	9	72
422895	M22895; AAA59988.1; M22897; AAA59988.1;	X01405;	X02469; X02469; 194788;	AF13627	x60012;	X54156; 25224;	25397; 7	T0436;	PDB; 10LG; 00-MAR-95.	SAE; 15- SAF; 15-	SAG; 15- SAH: 15-	SAI; 15-	SAU; 15- SAK; 15-	SAL; 15- TSR; 29-	AIE; 16 PES: 07	PET; 07	YCQ; 19	1YCS; 19	DB; 1C26; 24-JA RANSFAC: T00671	SWISS-2DPAGE, P0463		InterPro; IPR002117 Pfam: PF00870; P53;	PRINTS; PRO03	PROSITE; PS00348; P53; 1.	oncogene or prote	Li-Fraumeni s	Q.				MOD_RES			VARIANT	VARIANT	VARIANT	VARIANT

	R -> H (IN THE CELL LINE DETROIT 562 OF SQUAMOUS CELL CARCINOMA)	FIIG-VAR_005927.	FIIG-VAR_005928 R -> G (IN A BRAIN TUMOR)	/FIIO=VAK_U05929. R -> L (IN A BREAST AND A COLON TUMOR).	/FIIU=VAR_UUDSSU. R A CERVICAL CARCINOMA).	/riid=VAR_UOSSSI. R -> H (In-FS) COLON/ESOPHAGUS/	. 8	C -> F (IN BA AND MANY TYPES OF TUMORS): /FIId=VAR_005933.	C -> W (IN A LUNG TUMOR). /FIId=VAR_005934.	P -> L (IN A SKIN TUMOR). /FIId=VAR_005935.	H -> HPHP (IN A BURKITT'S LYMPHOMA). /FTIG=VAR_005936.	R -> L (IN A CERVICAL CARCINOMA). /FTId=vAR_005937.	C -> S (IN A STOMACH TUMOR). /FTId=VAR 005938	D -> Y (IN A LEUKEMIA AND A LYMPHOMA).	-> Y (IN A BREAST FTIG-VAR_005940.	G -> C (IN A BREAST TUMOR). /FTId=VAR 005941.	G -> S (IN A LEUKEMIA AND A LYMPHOMA).	A - 2 - F (IN AN OVARY TUMOR).	/ TILL TOWN OUT OF THE TOWN OF THE CONTROL TOW	/FILE-VAR_OUSS44. P / IN A COLON TUMOR).	Q -> R (IN A COLON TUMOR).	/FIIGWAR_005946. H> 0 (IN AN UTERUS TUMOR).	/FIIO*VAK_UOJU4/ H -> R (IN LFS).	/FIIG=VAR_U05948; L >> Y (IN A COLON TUMOR).	CONTRACTOR OF THE CELL LINE HU 281 OF	SQUAMOUS CELL CARCINOMA). /FIId=VRZ_005950. I -> T IN OSCC.	/FIId=VAR_00551. R -> K IN HNSC)	/FTId=VAR_005952.	/FTIG=VAR_005C3.	FTIG-VAR_005954.	K -> Q (IN A BURKITT'S LYMPHOMA AND A COLORECTAL TUMOR).	VIII AMOUNTO	Y -> C (IN OSC).	Y -> H (IN A COLON TUMOR).	Y -> S (IN HUSC) /FIId=VAR_005959.	D -> E (IN HNSC) /FTId-VAR_005960.
	174	175	175	175	175	175	37.5	0/7	176	177	178	181	182	184	186	187	187	189	190	191	192	193	193	194	194	195	198	205		9 6	213	216	220	220	220	228
	174	175	175	175	175	175	7	0 1	176	177	178	181	182	184	186	187	187	189	190	191	192	193	193	194	194	195	198	205	20.5	9 7	413	216	220.	220	220	228
	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	ENGLOCK	VAKIANI	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARTANT	THUT WELL	VAKIANI	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT
ដ	FF	FT	- E- E	- E- E-	- E- E-		E	- E-E-E	FT	FT FT	FF	FT	FT	FT FT	F.T.	FT FT	FF	FI FI	. E. E	EEE	T.E.	- E- E	. E. E	- E- E	FI	FF	FI	FI	i ger ge	. E. E	- E- E-	FF	FT	FF	F F	FT
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																															•					·,
S -> P (IN A BREAST TUMOR)	FTIG=VAR_0 -> A (IN	FILE-VAR_U03894. P -> S (IN MANY TYPES OF TUMORS). /FTITE-VAR 005895.	P -> T (IN BREAST TUMOR),	P -> L (IN A ESOPHAGUS TUMOR).	P -> S (IN OSC)	P -> T (IN A COLON TUMOR). /FTIG=VAR 005899	G -> V (IN ESOPHAGUS TUMOR).	T -> A (IN A ESOPHAGUS TUMOR).	Y INC. VAR. COSTEOSARCOMA CELL LINE).	V -> D (IN A LIVER TUMOR),	/FTIG-VAR_005903, V -> I (IN COLORECTAL CARCINOMA FROM A		V -> S (IN A S.AFRICAN HEPATOCELLULAR CARCINOMA).	/FIId=VAR_005904.	TUMOR). /FIId=VAR_005905.	K -> G (IN A BKAIN AND A LUNG TUMOR). /FTId=VAR_005906.	R -> H (IN A MANY TYPES OF TUMORS). /FIId=VAR_005907.	M -> I (IN A LUNG AND A SKIN TUMOR). /FTIG-VAR_005908.	A -> S (IN A BRAIN TUMOR). /FIId=VAR 005909	I -> S (IN A BRAIN TUMOR).	I -> V (IN A OVARY TUMOR).	Y:-> H (IN HNSC).	K -> N (IN A LUNG TUMOR)	K -> Q (IN A BREAST TUMOR).	Q -> L (IN A BREAST TUMOR). /FTId=VAR 005915	O -> R (IN A OVARY TUMOR). /FTId=VAR_005916.	S -> L (IN A LUNG TUMOR). /FTId=VAR_005917.	H -> R (IN A BRAIN TUMOR). /FTId=VAR_005918	M -> I (IN OSCC). /FTId=VAR_005919.	M -> T (IN A NONINVASIVE HEAD AND NECK	/FITCH VAR 005920, T -> M (IN A COLON TUMOR).	/FTId-var_005921. T -> S (IN A COLON TUMOR).	/FTIG-VAR_005922. $V \rightarrow A$ (IN A PROSTATE TUMOR).	/FTId=VAR_005923. $V \rightarrow E (IN A COLON TUMOR)$.	/FTId=VAR_005924. V -> L (IN A CERVICAL CARCINOMA).	/rige-var_doly225. V -> M (IN A COLON TUMOR).
149	151	151	151	152	152	153	154	155	156	157	157	;	/61	158		0 1	158	160	161	162	162	163	164	164	165	165	166	168	169	169	170	170	172	173	173	173
149	151	151	151	. 152	152	153	154	155	156	157	157		/c†	158	, G	0 T	158	160	161	162	162	163	164	164	165	165	166	168	169	169	170	170	172	173	173	173
E				_		٠.		_					_	E-4			_	_	E.	EH	<u>.</u>	-	-	E.	_	_	<u>.</u>	_					
VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT		VARIANI	VARIANT	TABTANE	NO TWO	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT

R -> G (IN HNSC). /FIId=VAR_005994 R -> H (IN LFS, COLON AND ESOPHAGUS	AR_005995. (IN A COLORECTAL TAR_005997.	STOMACH T	/FTId=vAR_005999. C -> G (IN A LUNG TUMOR). /FTId=vAR_006000.	UMOR).	P -> H (IN A LEUKEMIA AND A LYMPHOMA). /FIId-WAR_0060020		F -> S (IN OSCC). F -> T (IN HNSC; SAME PATIENT AS MUTATION P -> T (IN HNSC; SAME PATIENT AS MUTATION	HIS-ZUI). /FIIG=VAR_006005. G -> E (IN A COLORECTAL TUMOR).	/FIId-VAR_006006.	/FTIG=VAR UU60U/. R -> I (IN A COLORECTAL TUMOR).	FILT TO TO THE TOTAL CARCINOMA). FOR THE TOTAL CARCINOMA CONTRACTOR CONTRACT		D -> E (IN MANY TYPES OF TUMOKS). /FILd=VAR_006011.	FTIG-VAR_006012.	THR-278). FFIGA-VAR, 006013. D -> V (IN A COLORECTAL TUMOR).	/FIId-VAR_006014. R -> I. (IN A BREAST TUMOR). /FIId-VAR 006015.	R -> W (IN BA AND MANY TYPES OF TUMORS). /FIId-VAR (06016.	Frid VAR 006017. R -> G (IN A LUNG TUMOR).	/FIId=VAR_U0b018. R -> H (IN A COLON TUMOR). /FWITA=VAR ON6019	/FILE TILL A BREAST AND A LUNG TUMOR). /FILE-VAR 006020.	T -> A (IN A COLORECTAL TUMOR).	T -> P (IN A LUNG TUMOR).	E -> K (IN MANY TYPES OF TUMORS).	22	E -> V (IN A LIVER TUMOR). /FTId=VAR_006025.		E -> D (IN A LIVER TUMOR). /FITGH-VAR_006027 F -> G (IN A COLON, A LUNG, A HEAD AND A	
273	274	275	277	278	278	0 17	278 278	279	280	280	280	281	281	281	281	282	282	283	283	283	284	284	285	285	285	286	286	00
273	274	275	277	278	278	9/7	278	279	280	280	280	281	281	281	281	282	282	283	283	283	284	284	285	285	285	286	286	987
VARIANT VARIANT	VARIANT	VARIANT VARIANT	VARIANT	VARIANT	VARIANT	VAKTANI	VARIANT VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VAKIANT	VARIANT	VARIANT	VARIANT	VAKIANT VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VARIANT	VAKIANI
			F. 7.	THE .		는 F. E.	EF 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TH.	TH.	FT		H H H H	——————————————————————————————————————	L.H.	FT TFT	TE SE	- F. E.	T.4.	FT		T ET ET	14	1.4 1.4 1.4	- E-3	THE THE	- E	——————————————————————————————————————	<u>-</u>
SSCC). 15961. NAMAL TUMOR).	/FTId=VAR_005562. Y -> C (IN HNS). YTId=VAR_00563. Y -> H (IN A BURKITT'S LYMPHOMA).	964. COLON TUMOR). SARI WIMOR)	/FTId-VAR_005966. C -> Y (IN A COLORECTAL TUMOR).	ANAL TUMOR).	COLON TUMOR).	SKIN TUMOR). 170. RENAL TUMOR).	971. S; IN OSTEOSARCOMA; (NX TUMORS).	972. S AND IN A COLON TUMOR).	AND MANY TYPES OF TUMORS).	SC). 375.		EUKEMIA AND A LYMPHOMA). 177. ANY TYPES OF TUMORS).	TUMOR).	179 JUNG TUMOR)	ENDOCRINE TUMOR). 81. Spharvnx: TarvnX and		ANY TYPES OF	S, BA AND IN MANY TYPES OF 5984	UMOR).	ANY TYPES OF TUMORS).	200	FS AND IN MANY TYPES OF	5988. NSC).	COLORECTAL TUMOR).	LES AND IN BREAST CANCER	05991.	005992. LFS; IN COLORECTAL TUMOR AND	OSCC). /FTId=VAR_005993.
T -> I (IN OSCC). /FIId=VAR_005961. I -> I (IN AN ANAL I	/FTIG=VAR_005962 Y -> C (IN HNSC) /FTIG=VAR_005963 Y -> H (IN A BUR	/FTIG=VAR_005964. M -> I (IN A COLON TUMOR) /FTIG=VAR_005965.	FTIG=VAR_005 C -> Y (IN A (S -> I (IN AN	S -> F (IN A C	C -> F (IN A SKIN TUMOR). /FTId=VAR_005970. G -> A (IN A RENAL TUMOR).	/FTId-VAR_005971. G -> C (IN LFS; IN OSTEO COLON AND LARYNX TUMORS)	/FTId=VAR_005972 G -> D (IN LFS AND IN A	/FIIG=VAK_0033 G -> S (IN BA /FTIG=VAR 0059	G -> V (IN HNSC). /FTId=VAR_005975.	M -> R (IN A) /FTId=VAR_0059	M -> T (IN A.LEUKEMIA AND /FTId=VAR_005977.	/FTIG=VAR_005978. N -> W (IN A SKIN 7	/FTIG=VAR_005979 N -> I (IN A LUN	FTIG-VAR_005981.	TONSIL TUMORS). /FTId=VAR_005982.	R -> Q (IN LE: TUMORS). /FTId=VAR_005	R -> W (IN LFS, TUMORS).	R -> G (IN A BREAST T /FTId=VAR_005985.	R -> S (IN M /FTIG=VAR_00	I -> N (IN H /FTIG=VAR_00	L -> P (IN L TUMORS).	/FTIG=VAR_005988 L -> P (IN HNSC)	FIIG=VAK_UU E -> D (IN A	E -> K (IN LES AN	CELLS). /FTId=VAR_0	/FTIG=VAR_005992. R -> C (IN LFS; I	OSCC). /FTId=V
230 T -> I (IN C /FTIG-VAR_0C 232 I -> I (IN P				Z40 S -> I (IN AN /FTIG=VAR_0055		242 C -> F (IN·A 5 /FTIG=VAR_0059 245 G -> A (IN A 1		/FTId=VAR_005 245 G -> D (IN LF	/FIIG=VAK_0035 245 G -> S (IN BA /FTIG=VAR 0059		246 M -> R (IN A) /FTId=VAR_0059	246 M -> T (IN A.I /FTId=VAR_0059		/FTId=VAR_0059 247 N -> I (IN A I	, EE		248 R -> Q (IN LF: TUMORS). /FTId=VAR_005	.248 R -> W (IN LE TUMORS).				252 L -> P (IN L TUMORS).	/FTId=VAR_00 257 L -> P (IN H	/FTIG=VAK_U0 258 E -> D (IN A	/FIIG=VAK_U 258 E -> K (IN]	CELLS). /FTIG=VAR_0		OSCC). /FTId=V
	234	237	738		241		245			. 245	246		247	247	ETIC				249	249	251						273	,
230	234 234 234 234	237 237	738	240	241	242 245	245 245	245	245	245 , 245	246	246	240 240	247 247	248 248 R -> 248 Z ->		248	. 248	249	249 249	251 251	VARIANT 252 252	VARIANT 257 257	VARIANT 258 258	VARIANT 258 258	CTC CTC	273	

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EDPGPDEAPRMPEAAPPVAPAPAAPAPSWPLSSS---VPSQKTYQGSYGFRUGFLHSGTAKS

TO 70 120 120 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140 150 160 200 210
ATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKABHYTDVVKRCPNHELGRDFNEGQSAPA
                                                                                                                                                                                                                                                                                                                                                                                              -> C (IN A LIVER TÜMOR AND NONCLASSICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          70 80 90 100 1‡0 120 130
LSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEYTFQQSSTAKS
                                                                                                                                                                                                                                                                                                                                                       Optimized Score = 160 Significance = 0.00 Matches = 174 Mismatches = 208 Conservative Substitutions = 0
                                                                                                                                                                                                                                                                              /FTIG=VAR_006041.
C->Y: DECREASED E6-MEDIATED BINDING TO
 TYPES OF TUMORS).
                                                                                                                                                                                                                                                                                                                                June 4, 2003:14:14 Type: P Check: 4243
                                                                                                                                                           FTIG-VAR 006036.
                                                  /FTId-VAR_006031.
P -> R (IN A SKIN TUMOR).
/FTId-VAR_006032.
                                                                                                                                                                                           -> S (IN A COLON TUMOR).
FTId=VAR_006038.
                                                                                                                                                                                                                          FTIG-VAR_006039.
| -> V (IN A LUNG TUMOR):
| FTIG-VAR_006040.
                                                                                   -> L (IN A COLON TUMOR)
                                                                                            FTIG-VAR_006033.
-> E (IN A COLON TUMOR)
FTIG-VAR_006034.
                                                                                                                             (IN A COLON TUMOR)
                                                                                                                                                                                                                                                                                                              AD5C149FD8106131 CRC64;
                                                                                                                                                  -> O (IN A SARCOMA).
-> K (IN MANY
FTIG-VAR_00602
                                                                                                                                                                                                                 FTIG-VAR_00603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               00/
                                                                                                                                       FTIG-VAR
                                                                                                                                                                                                                                                                                                              393 AA; 43653 MW;
                                                                                                                                                                                                                                                                                         135
                                                             300
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418
38
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                                                                                                                                                                                                                                                                                                                                                     Initial Score Residue Identity Gaps
                                                                                                                                                                                                                                                                                                              SEQUENCE
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VARIANT
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                                                                                                                                                VARIANT
```

×

DB 174 motelle 27° (A) = 27° (A)